

Date: Sun, 7 Feb 93 07:38:18 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #180
To: Info-Hams

Info-Hams Digest Sun, 7 Feb 93 Volume 93 : Issue 180

Today's Topics:

* SpaceNews 08-Feb-93 *
73 Magazine advertising

Anyone test after Nov 14th get their license yet?
battery:

CW and an understanding of radios: How do I get started?
Future Class: Call Signs

Extra Class Call Signs

Grace DSP-12 vs. AEA DSP-1232 ? Opinions?

License Turn-around Update

Lithium AA cells!!

OPINIONS: Yeasu FT-530, and other dual band HTs Some FT-530 Questions...

SUMMARY: WANTED-Light, cheap color camera (no luck)
UK call signs

WARNING: Potential Major Solar Flare Warning - 06 Feb

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>

Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>

Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available (by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: 7 Feb 93 02:24:31 GMT

From: news-mail-gateway@ucsd.edu

Subject: * SpaceNews 08-Feb-93 *

To: info-hams@ucsd.edu

SB NEWS @ AMSAT \$SPC0208

* SpaceNews 08-Feb-93 *

BID: \$SPC0208

=====
SpaceNews
=====

MONDAY FEBRUARY 8, 1993

SpaceNews originates at KD2BD in Wall Township, New Jersey, USA. It is published every week and is made available for unlimited distribution.

* MIR CREW FAREWELL MESSAGE *

=====

Subject: GOOD BYE from CREW#12

Space Station MIR
H=400km from Earth
January 31 , 1993 .

Dear "Hams" !

Tomorrow we will have to return at the Earth...
We wish to say good-bye to you and many thanks
for your nice contacts.
Your messages and voice was help us in the space!

We will be very happy to meet you again...
...on the Earth...

GOOD BYE !!!

Crew #12 of Space Station MIR:

flight commander - Anatoly Solovyev ,
&
flight engineer - Sergey Avdeyev .

73 ! U6MIR

Tomorrow (February 1,1993) PMS callsign will be R2MIR-1 .

Crew #13 of Space Station MIR:

flight commander - Gennadiy Manakov [U9MIR] ,
flight engineer - Alex Poleshtshouk [R2MIR] .

[Message via Dave, N6JLH]

* OSCAR-13 BANDPASS *

=====

STATION:FC1MSE
NAME :TERRY
QTH :BOULOGNE 92 / 5 KM FROM THE EIFFEL TOWER
LOC :JN18CU BI12H
TRX :FT 736 R 100W
UHF :21 ELTS TONNA
VHF :16 ELTS TONNA + PREAMP

21 JANUARY 1993:

1554 / 145900 A41KB
2029 / 145115 JH0IEW

22 JANUARY 1993:

0828 / 145907 DC8WY
0835 / 145907 JO3SBC

28 JANUARY 1993:

1929 / 145910 SV10H
1937 / 145895 4U1ITU
1958 / 145919 KP4SQ
2028 / 145912 VE3WIM

[Info via Terry, FC1MSE]

* MORE OSCAR-13 BANDPASS *

=====

WEDNESDAY 20:

1702-145901 A41KB

SATURDAY 23:

1611-145884 VS6YHT

MONDAY 25:

1356-145895 VU2DUP

WEDNESDAY 27:

0921-145890 AH1A

THURSDAY 28:

0844-145899 AH1H -strong signal

FRIDAY 29:

1835-145887 4U1ITU
1940-145897 TU2SJ

SATURDAY 30:

0917-145900 AH1A up 10
1751-145901 KP4TR

SUNDAY 31:
0808-145900 AH1A

[Info via Sergio, IK5AAX]

* JPL IMAGES AVAILABLE *

=====

GIF images, viewing software for various computer systems, and information archives are available through anonymous ftp through the Internet at pubinfo.jpl.nasa.gov. Use your location (City, State, Country) as a password when logging into the system. Type "dir" for a directory of available files. You can also switch into several directories using the "cd" command.

To download a file, type the following commands:

```
hash
bell
type binary
get filename    <-- where "filename" is the name of the file you want
```

and the file will be transferred to your system via TCP/IP in a flash.

This service is made available through the Public Information Office of the Jet Propulsion Laboratory, Pasadena, California. For more information, capture and read the "readme" file available on the system.

* FEEDBACK/INPUT WELCOMED *

=====

Mail to SpaceNews should be directed to the editor (John, KD2BD) via any of the following paths:

```
FAX      : 1-908-747-7107
UUCP    : ...catfish.ocpt.ccur.com!ka2qhd!kd2bd
PACKET   : KD2BD @ NN2Z.NJ.USA.NA
INTERNET : kd2bd@ka2qhd.ocpt.ccur.com -or- kd2bd@amsat.org
```

```
MAIL     : John A. Magliacane, KD2BD
          Department of Engineering and Technology
          Advanced Technology Center
          Brookdale Community College
          Lincroft, New Jersey 07738
          U.S.A.
```

<<-- SpaceNews: The first amateur newsletter read in space! -->>

/EX

--

John A. Magliacane FAX : (908) 747-7107
Engineering & Technology Dept. AMPR : KD2BD @ NN2Z.NJ.USA.NA
Brookdale Community College UUCP : ...!rutgers!ka2qhd!kd2bd
Lincroft, NJ 07738 USA VOICE: (908) 224-2948

Date: 6 Feb 93 02:44:35 GMT

From: spool.mu.edu!howland.reston.ans.net!usenet.ins.cwru.edu!gatech!wa4mei!ke4zv!
gary@decwrl.dec.com
Subject: 73 Magazine advertising
To: info-hams@ucsd.edu

In article <9302051720.AA01278@ucsd.edu> MROWEN%STLAWU.BITNET@cunyvm.cuny.edu
(Michael Owen W9IP) writes:

>>Did you ever notice that 73 is top-heavy with ads from small "garabe-shop"
>>companies? I suspect that part of the reason is that the small
>>proprietors aren't hooked in to the old-boy ham radio gossip network
>>and so aren't aware about the stories of 73's whimsical circulation
>>figures. The big outfits know pretty much what 73's circulation
>>actually is, and base their ad campaigns accordingly.

>

>>AL N1AL

Actually, the big manufacturers feel pressured to place their ads in the "official" organ of the national society. They don't sell direct and have little way of knowing how effective their ad purchases really are in generating sales.

>I run one of those "garage shop" companies, Northern Lights Software.
>73 has a lot of ads from small outfits because their advertising staff
>is rather, shall we say, *agressive*. 15 telephone calls over 6 weeks,
>trying to get me to advertise. They were very polite and professional,
>but they just wouldn't give up. Add agressive ad staff to dubious claims
>of circulation/market penetration, as well as the _really_ expensive
>rates of CQ & QST, and lots of small-scale operations will choose to
>advertise there.

>

>Did I succumb? No way. I'm not about to hang around in the same
>advertising neighborhood as "BEAT CELLULAR TELEPHONE TOLLS!" and
>other disreputable outfits. I'd rather advertise in the National Enquirer.

Your loss. The actual bingo card return rate, and order rate, from a business card size ad in 73 is higher per dollar spent than the same ad in QST where it gets lost in the mice type and back pages "catalog". I don't know about big ticket items, but the little gadgets sell better in 73. That's based on discussions with several small companies who have advertised in both magazines.

I don't think that's really a circulation issue as much as it is a reader demographics issue and a magazine layout issue. 73 readers seem to like little gadgets and software, *and* they seem to actually *read* the little ads interspersed with the text. With QST, you have to be actively searching for a product to find the ad. 73 ads are better geared to impulse buying than the "catalog" in the back of QST. You have to consider the marketing strategy best suited to your product.

QST has a larger circulation, but much of it's readership is of the elderly field organization man type, and the rest rarely bother to read past the features up front unless they are hunting for a particular, usually big ticket, item. So the active potential buyers who actually read your ad are fewer than in 73 unless your product is already well known.

CQ caters to the DXer market which is not 73's forte. So a product aimed at DXers is likely to do better with ads in CQ. Communications Quarterly and the various low circulation specialty magazines that aim at specific interest groups can be useful for marketing a specialty product, but their circulations are generally very low while their ad rates are not, so their ads often aren't cost effective.

In short, don't be snowed by raw circulation numbers. They rarely tell you anything about where your advertising dollar will return the most benefit in enquiries and orders. A test ad is often the best measure, but a study of the demographics of the target audience and the placement of ads in the magazine can tell you a lot about how successful your ad is likely to be.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

Date: Sat, 6 Feb 1993 06:36:11 GMT

From: mvb.saic.com!unogate!news.service.uci.edu!usc!howland.reston.ans.net!

bogus.sura.net!udel!gatech!destroyer!fmsrl7!lynx.unm.edu!nmsu.edu!
usenet@network.UCSD.EDU
Subject: Anyone test after Nov 14th get their license yet?
To: info-hams@ucsd.edu

mjohnsto@jenny.shearson.com (Mike Johnston) writes:

>The suspense is killing me. Has anyone who tested after November
>14th received their ticket from the FCC?

I took my test on November 15, and I haven't heard a thing yet. The Las Cruces area is notorious for being a mail bog, though, so it's likely that I'll get it in another week.

Just curious ... did anyone ever pass their test and not get sent their license, because it somehow got lost along the way?

Dan Tasman dtasman@dante.nmsu.edu
molson@rever.nmsu.edu

Date: 6 Feb 1993 21:11:06 GMT
From: sdd.hp.com!usc!howland.reston.ans.net!sol.ctr.columbia.edu!
hamblin.math.byu.edu!usenet@network.UCSD.EDU
Subject: battery:
To: info-hams@ucsd.edu

Does anyone what nickel-metal-hydro something battery is?
It supposes to be pop in the EAST.
any info would be appreciated.

Date: 6 Feb 93 02:55:53 GMT
From: pacbell.com!att-out!walter!porthos!dancer!whs70@decwrl.dec.com
Subject: CW and an understanding of radios: How do I get started?
To: info-hams@ucsd.edu

In article <C1zMpJ.IIp@bcstec.ca.boeing.com> spady@bcstec.ca.boeing.com (Robyn Spady) writes:
>Okay, I'll admit it . . . I don't know CW . . . I also know virtually nothing
>about radios . . . However, I would like to earn a General license (13wpm, etc.)

>
>You may be asking "Why?" . . . My parents both have licenses (my mother has a
>General and my father has an license that required CW at 5wpm . . . but I don't
>remember what he calls it) . . . They have been out cruising on their sailboat
>for almost two years and have found the ability to stay in contact with the
>outside world, in addition to boats that are near by, has been invaluable!
>
>I would like to have the same ability . . . We live on our sailboat and are
>planning on taking off in a few years to points unknown . . . How do you
>know where to start learning what you need to know (specifically in the Puget
>Sound/Seattle area) and where to go?
>
>We currently have a license that allows minimal use of our marine VHF. (Most
>of these people don't know proper use and etiquette at this level . . . Does
>it get any better?)
>
>Any advice, suggestions, and/or comments directing me on how and where to get
>started would be greatly appreciated!

Wow, what great possibilities lie ahead for you. But I digress, your question....For starters, call the Amateur Radio Relay League (ARRL) and order the book and tapes in a package called: "Now You're Talking." Price is \$19 and you can order with credit cards 1-203-666-1541. You can also find the publication in most Radio Shack stores.

Also try contacting a nearby Amateur Radio club in the Washington area. Many clubs hold classes to help people obtain their license. The latest issue of a ham magazine includes a reference to a Kent Washington club that holds a Ham fleamarket in March. You might start with the contact for that event and see if the person can refer you to a group that has classes available. Contact D. Dinkleman at 206-854-4031.

Two other contacts in the northwest are the director and vice director of the ARRL Northwestern division: Mary Lewis 206-523-9117 and Mary Brown 206-293-9295)

One thing to be aware of, while you can operate as a ham from the USA anywhere on the high seas, when you are within a port or the territorial waters of another country you must have pre-arranged reciprocal operating agreements. Some countries don't issue them at all, but for many it just means you need to do the paperwork a sufficient time ahead to be able to operate when you get there.

Hope that helps.

Standard Disclaimer- Any opinions, etc. are mine and NOT my employer's.

Bill Sohl (K2UNK) BELLCORE (Bell Communications Research, Inc.)
Morristown, NJ email via UUCP bcr!cc!whs70
201-829-2879 Weekdays email via Internet whs70@cc.bellcore.com

Date: Fri, 05 Feb 1993 15:21:00
From: sun-barr!cs.utexas.edu!usc!sol.ctr.columbia.edu!eff!news.oc.com!
utacfd.uta.edu!rwsys!ocitor!FredGate@ames.arpa
Subject: Extra Class Call Signs
To: info-hams@ucsd.edu

> Sorry to ask what is possibly a stupid question, but
> are extra call signs
> now in the same format as advanced call signs?

yes they are now 2x2. difference is that they start with the 'AA-AK' prefix
lee - wa5eha

* Origin: Com Port 1 DFW Amateur Radio BBS (214) 226-1181 (1:124/7009)

Date: Sat, 06 Feb 1993 00:00:13 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!usc!sdd.hp.com!swrinde@gatech!
news.ans.net!newsgate.watson.ibm.com!yktnews!admin!uri@network.UCSD.EDU
Subject: Grace DSP-12 vs. AEA DSP-1232 ? Opinions?
To: info-hams@ucsd.edu

Hi,
Could you please compare these two DSP units?
Advantages and disadvantages of each?

Thanks! (Please e-mail replies)

--
Regards,
Uri. uri@watson.ibm.com scifi!angmar!uri

<Disclaimer>

Date: 7 Feb 93 03:13:03 GMT
From: ogicse!uwm.edu!psuvax1!atlantis.psu.edu!psuvm!ucf1vm!
morrison@network.UCSD.EDU
Subject: License Turn-around Update

To: info-hams@ucsd.edu

In article <1993Feb6.224506.4509@rock.concert.net>, cole@concert.net (Derrick C. Cole) says:

I passed the exam on 05 DEC 92 - Issued on 02 FEB 93, received on 06 FEB93.
Right on 8 weeks.

73's de KD4WPA - Aaron

Qapla' reH!

Morrison@ucf1vm.cc.ucf.edu (Aaron Morrison)
University of Central Florida, Orlando Florida USA

A host is a host from coast to coast
no one will talk to a host that's close
Unless the host (that isn't close)
Is busy, hung, or dead.

Date: Sat, 6 Feb 1993 19:00:12 GMT

From: sdd.hp.com!usc!howland.reston.ans.net!bogus.sura.net!udel!gatech!hubcap!

ncrcae!ncrhubb2!ncrgw2!psinntp!panix!schuster@network.UCSD.EDU

Subject: Lithium AA cells!!

To: info-hams@ucsd.edu

Eveready has introduced a consumer-grade lithium AA cell labelled for photo and other high-current uses. It is billed to have three times the capacity of alkaline cells and a 10-year shelf life. The L91 photo batteries cost about \$5 for a 2-pack. I saw them, of all places, in the photo department at K-mart. Has anyone tried these?

I'm curious about the 1.5V labelling, since I was under the impression that all prior lithium electrolyte mixtures yielded a terminal voltage of 3V. These are definitely 1.5V cells which are drop-in replacements for standard AA batteries ... though very expensive ones!

- -

----- Mike Schuster -----

NY Pub. Access UNIX/Internet: schuster@panix.com | 70346.1745@CompuServe.COM
The Portal (R) System: schuster@shell.portal.com | MCI Mail, GEnie: MSCHUSTER

Date: 7 Feb 93 13:27:42 GMT

From: ogicse!emory!gatech!wa4mei!ke4zv!gary@network.UCSD.EDU

Subject: OPINIONS: Yeasu FT-530, and other dual band HTs

To: info-hams@ucsd.edu

In article <1993Feb7.010403.26647@cs.sfu.ca> ballanty@cs.sfu.ca (Rob Ballantyne) writes:

>
> Well, the subject line says it all. I'm looking at dual-band HT's and
>currently leaning towards the FT-530. I've also been looking at the
>Kenwood TH-78, Alinco DJ-580, and the Icom IC-W2A. What I would like to
>know is: is the 530 in the same league as the others on my list (same kinds
>of features)? Are these the only HTs I should be considering, are there
>any others that you would recommend?

>
> Any other sage advise you would like to pass on would be
>appreciated---This is my first radio.

Rob, you've got to ask yourself what you want the radio for. Do you want a lot of neat toy features, or do you want solid communications? Do you really need dual band capability, or will one band suffice? Is scanning important, or is low intermod important? And so on.

No one radio has everything. I tend to prefer radios that meet a solid communications need. That means ham bands only with excellent intermod rejection, excellent mechanical ruggedness, and good thermal design. In addition to that, I like to get good value for the money. For a dual bander, my first preference would be a used Icom IC32AT, and my second choice would be a used Yaesu FT470. For single band use, I'd choose a Motorola HT220 or GE Mastr. I would accept an IC2AT or IC4AT as second choice. Even the Radio Shack HT is acceptable for 2 meters.

Of the particular radios you list above, I'd wait a while on the FT-530, it has many reported intermod problems. I'd tend to favor the DJ-580 over the others on a cost basis. And finally, I'd pick the W2A over the Kenwood simply because Kenwood service sucks.

Gary

--

Gary Coffman KE4ZV | You make it, | gatech!wa4mei!ke4zv!gary
Destructive Testing Systems | we break it. | uunet!rsiatl!ke4zv!gary

534 Shannon Way | Guaranteed! | emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244 |

Date: 7 Feb 93 10:33:49 GMT
From: ogicse!uwm.edu!spool.mu.edu!olivea!charnel!jmeyers@network.UCSD.EDU
Subject: Some FT-530 Questions...
To: info-hams@ucsd.edu

In article <1993Feb6.220147.18845@ulysses.att.com> wmb@ulysses.att.com (W M Brelsford) writes:

>Anyone discover any other undocumented features/behaviors?

Hmmm.. Feature? Well, I'm glad it has an internal audio path unlike the 470. (for cross band repeat, that is) I tried "in band" repeat, and the radio actually tried to do it, but without a duplexer, it just transmitted broken noise...

--

| Jeff Meyers | jmeyers@ecst.csuchico.edu | 39x43'N 121x48'W |
| Chico, Ca 95926 | KD6DIS@KE6LW.#NOCAL.CA.USA.NA | Grid: CN80-CM99 ?? |

Date: 5 Feb 93 14:52:20 GMT
From: usc!cs.utexas.edu!milano!shrike!ut-emx!mac27.util.utexas.edu!
miles@network.UCSD.EDU
Subject: SUMMARY: WANTED-Light, cheap color camera (no luck)
To: info-hams@ucsd.edu

Awhile back I posted a request for an inexpensive, lightweight color TV camera, with a few defective pixels being acceptable if it would bring down the price. I wanted to suspend it from a kite, along with a lightweight transmitter, and fly it at our local kite contest in March. Several folks asked me to tell them what I found. The answer is...not much.

One person told me that the manufacturers do not have any cameras with a few bad pixels, because they are electronically mapped out during manufacturing.

Another told me that the camera shops in his area have standing orders from local military bases for any reasonable cameras, for use in recording tests of explosives and such.

I had an idea that a broken camcorder might be a good source for such a camera, so I called 4 or 5 companies locally that offer repair service. Nobody had a camcorder they could not fix. One fellow said he would ask his suppliers, and volunteered that would charge \$75 to \$150 for one if he found it, but he never called back.

One person had just seen an ad for a micro-miniature TV camera from Toshiba, at 800-253-5429 x 6131. I called, got bumped to a Toshiba distributor, then a sub-distributor, and finally a dealer (who sells to banks, not to general public). Nobody had any information, or even a list price.

I placed a classified ad for a week in our local newspaper, "WANTED, DEAD OR ALIVE, camcorder. Working or not." There were no responses of any sort.

A couple of leads I didn't follow through on completely, including a miniature camera-on-a-card by Mitsubishi and some miniature cameras advertised in High Power Rocketry magazine. I figure that any _new_ camera will probably cost more than I care to risk hanging from a kite.

Another fellow offered to sell me a used TV camera, but I was told that it probably has the signal processing circuitry in the same box as the (heavy) power supply. He was going to check, and I have not received an update.

Thanks to all who helped. It looks like black & white is as good as I am going to get this time around. Oh, well, there is always next year.

= = = = =
- Miles Abernathy, N5K0B =
| |__ miles@emx.cc.utexas.edu =
_ | | POB 7580, Austin TX 78713 =
\ * / University of Texas @ Austin =
\ / tel. (512) 471-6521 =
= = = = = = = = = = = = = = =

Date: 5 Feb 93 13:34:53 GMT

From: usc!howland.reston.ans.net!usenet.ins.cwru.edu!agate!doc.ic.ac.uk!pipex!
Q.icl.co.uk!dsbc!ozz!prs@network.UCSD.EDU
Subject: UK call signs
To: info-hams@ucsd.edu

In article <C1tGu7.HK@brunel.ac.uk>, cs90nrs@brunel.ac.uk (Nicholas R Swift)
writes:

> Mark Readman (control3@McRCIM.McGill.EDU) wrote:
>

> : I would like to know the call signs currently in use in
> : UK. What should I be listening for on HF. Is it
>
> The following are currently in use for HF:
>
> G 0 xxx
> G 2 xx
> G 3 xxx
> G 4 xxx
> G 5 xx
>
plus

G 3 xx G 4 xx G 6 xx & G 8 xx

plus variants for GM0xxx etc GW0xxx etc

> 2 x 0 xxx (Novice licence-holders using QRP)

there are currently about 100 HF novices licence holders in the UK.

> Also to be heard will be GBnxxx where n is 0,2,3,4 or 5. These calls are for
> special events. Club calls may insert an extra character between the G and
> the digit, depending on their location within the UK.

Not quite true.. GB5xxx is allocated for class B use only.

>
> You may also hear M0RSE, this is not a pirate. The M series is allocated to
> the UK and the RSGB persuaded the licencing authorities to let it be used
> for special events.

the M0RSE call was a once off special and not liekly to be repeated in
the near future

>
>
> Nick, G7ENS

Peter Swynford is available... tel:+44 344 424842 x 2625 / fax:+44 344 489280
or at prs@oasis.icl.co.uk ..!uunet!mcsun!ukc!iclbra!prs GOPUB@GB7RDG.GBR.EU
Disclaimer: See Paragraph 2.4.a of section 1.a (article 7) (iii) of the
Town and Country Planning Act, 1967.

Date: 6 Feb 93 23:40:01 GMT
From: news-mail-gateway@ucsd.edu

Subject: WARNING: Potential Major Solar Flare Warning - 06 Feb
To: info-hams@ucsd.edu

/\/

POTENTIAL MAJOR SOLAR FLARE WARNING

ISSUED: 22:00 UT, 06 FEBRUARY

/\/

PRIMARY CANDIDATE FOR HIGH SOLAR ACTIVITY : REGION 7417 (N13E20/06FEB)

ESTIMATED POTENTIAL MAGNITUDE OF ENERGETIC ACTIVITY OVER NEXT 7 DAYS						
DAYS	C5.0	M1.0	M5.0	X1.0	X5.0	>X12.0
1()PG	100 %	60 %	50 %	25 %	5 %	1 %
3()PG	100 %	70 %	60 %	40 %	10 %	2 %
5(-)PG	100 %	80 %	65 %	50 %	15 %	2 %
7(-)P	100 %	80 %	65 %	50 %	20 %	2 %

DAYS = Number of days (from present) into the future (1, 3, 5 and 7 days).
 (+) = Primary candidate region expected to GROW and DEVELOP.
 () = Primary candidate region expected to STABILIZE or remain STABLE.
 (-) = Primary candidate region expected to DECAY and SIMPLIFY.
 (x)P = Possible proton and/or PCA threat. (x) may be one of (+), (-), or ().
 (x)G = If a favorable major flare develops, a moderate to high probability
 exists that the event may be geoeffective.
 xx % = Probability of activity equalling or exceeding the given x-ray class
 sometime over the next number of DAYS.
 WLT = Data not applicable due to the West Limb Transit of the target region.

The above chart should be used as a guide only. It represents anticipated levels of activity based on current projections of region development. Actual conditions may, of course, differ from these projections.

SYNOPSIS:

Region 7417 combined with Region 7419 to produce a major M9.6/3B tenflare on 06 February at 18:24 UT. Further major flaring is possible from Region 7417 and/or combined with nearby Region 7419. There is concern future major activity may involve proton injections. Those who may be affected are therefore alerted to the possibility of proton-related anomalies (whether

satellite related, PCA-induced, or otherwise).

This warning will remain active until 16 February when it will expire, unless earlier cancellation is warranted.

/\/

End of Info-Hams Digest V93 #180
